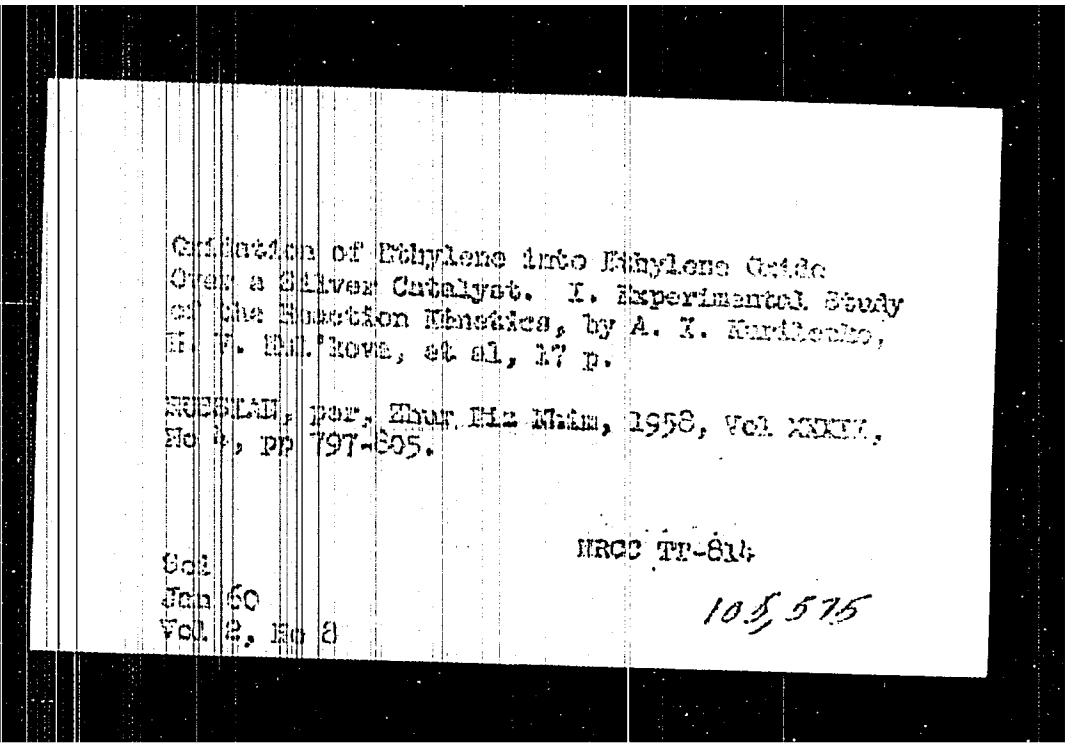
APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4



Oxidation of Ethylene into Ethylene Oxide
Over a Silver Catalyst. I. Experimental Study
of the Reaction Kinetics, by A. I. Kurilenko,
N. F. Ehl'kova, et al, 17 p.

KURILAN, por, Zhur Fiz Khim, 1958, Vol XXXII,
No 4, pp 797-805.

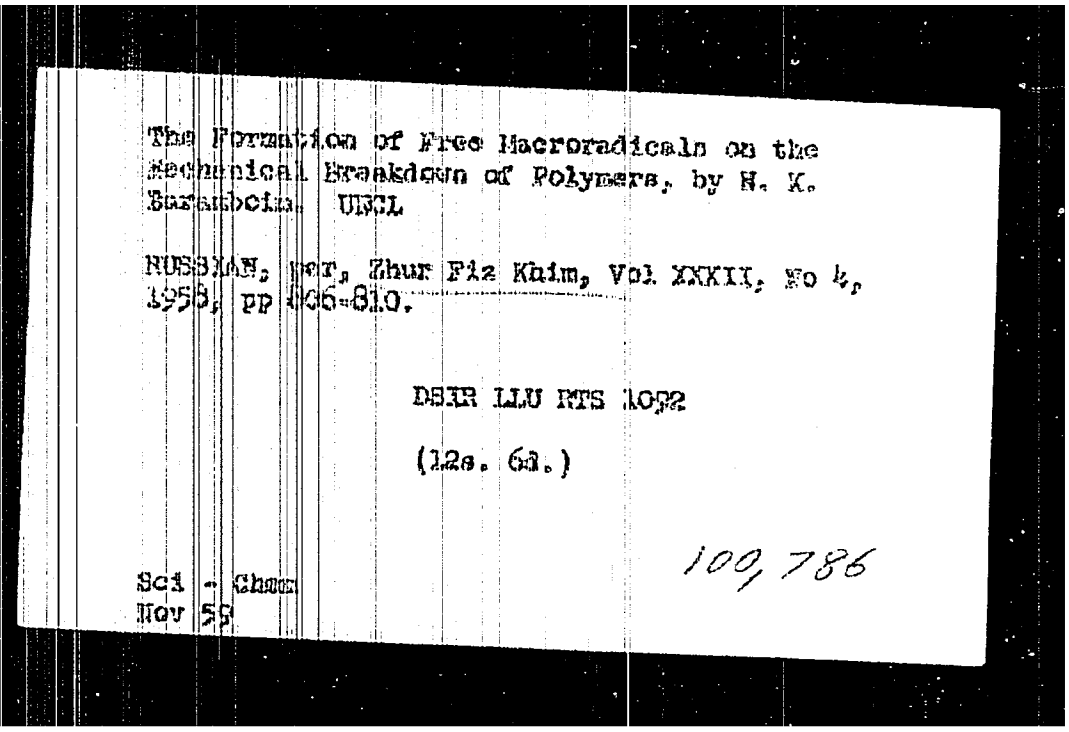
NRCC TT-814

Sci
Jan 60
Vol 2, No 8

10.5575

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4



The Formation of Free Macroradicals on the Mechanical Breakdown of Polymers, by N. K. Baramboim. UNCL

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 4, 1958, pp 806-810.

DSIR LLU RTS 1092

(12s. 6d.)

109,786

Sci - Chem
Nov 59

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

The Reactions of Nitrogen During Explosion, by A. Ya. Apin, Yu. A. Lebedev, O. I. Nefedova, 12 pp.

RUSSIAN, per. Zhur Fiz Khim, Vol XXXII, No 4, 1958, pp 819-824.

ATIC F-TS-9932/V
=AEC

Sci - Chem

Aug 59

94,580

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

The Connection Between the Texture and Properties of Electrolytic Nickel Deposits, by G. S. Vozdvizhenskiy R. S. Saifullin.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 4, 1958, pp 831-833.

ATS RJ-2060

Sci - Chem
Dec 59

184,067

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Myasnikov, I. A.
SURFACE PROCESSES ON ZnO AND ITS ELECTRICAL CONDUCTIVITY IN A HYDROGEN ATMOSPHERE [Poverkhnostnyye Protsessy na ZnO i yeye Elektroprovodnost' v Atmosfere Vodoroda]. [1960] 8p.
Order from ATS $10.65 ATS-77N48R

Trans. of Zhur[nal] Fiz[icheskoy] Khim[ii] (USSR) 1958, v. 32, no. 4, p. 841-847.

151564

(Physics--Solid State, TT, v. 5, no. 8)

61-12782

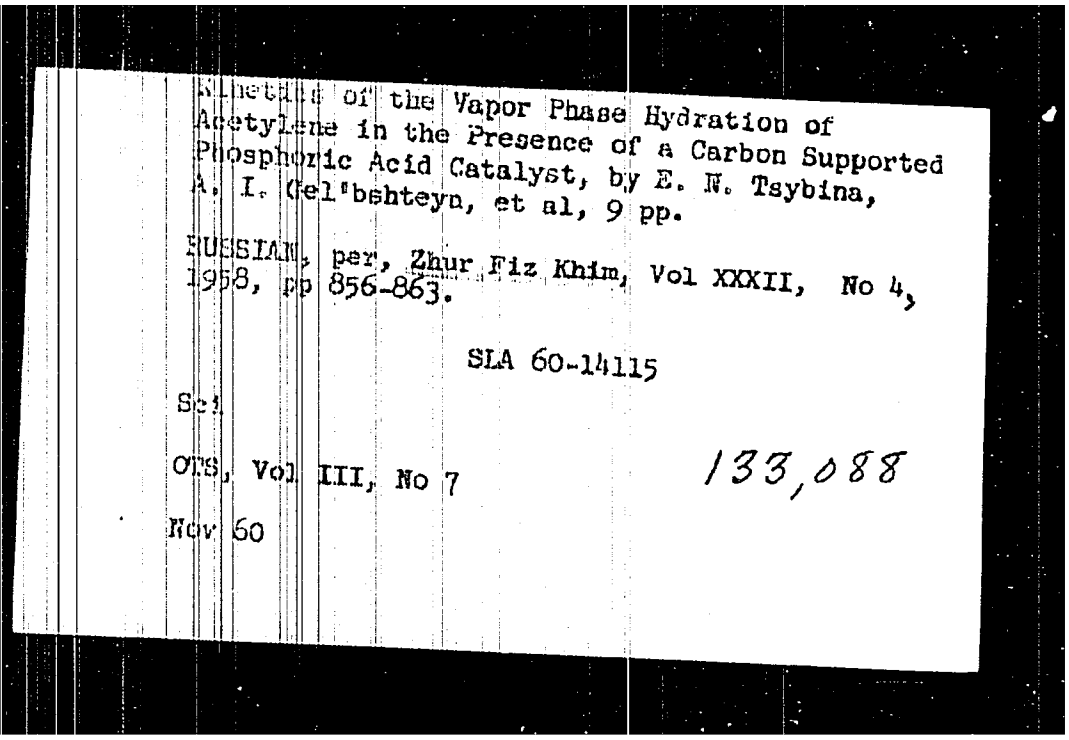
1. Zinc oxides--Electrical properties
2. Electrical conductance--Measurement
I. Myasnikov, I. A.
II. ATS-77N48R
III. Associated Technical Services, Inc., East Orange, N. J.

ATS/RT-3041

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4



Kinetics of the Vapor Phase Hydration of Acetylene in the Presence of a Carbon Supported Phosphoric Acid Catalyst, by E. N. Tsybina, A. I. Gel'bshteyn, et al, 9 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 4, 1958, pp 856-863.

SLA 60-14115

Sci

OTS, Vol III, No 7

Nov 60

133,088

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

(DC-3518).

Isotopic Oxygen Exchange Between Water and Carbon Dioxide, by M. Ya. Kats, F. S. Lapteva, 8 pp.

RUSSIAN, per., Zhur Fiz Khim, Vol XXXII, No 4, 1958, pp 861-868.

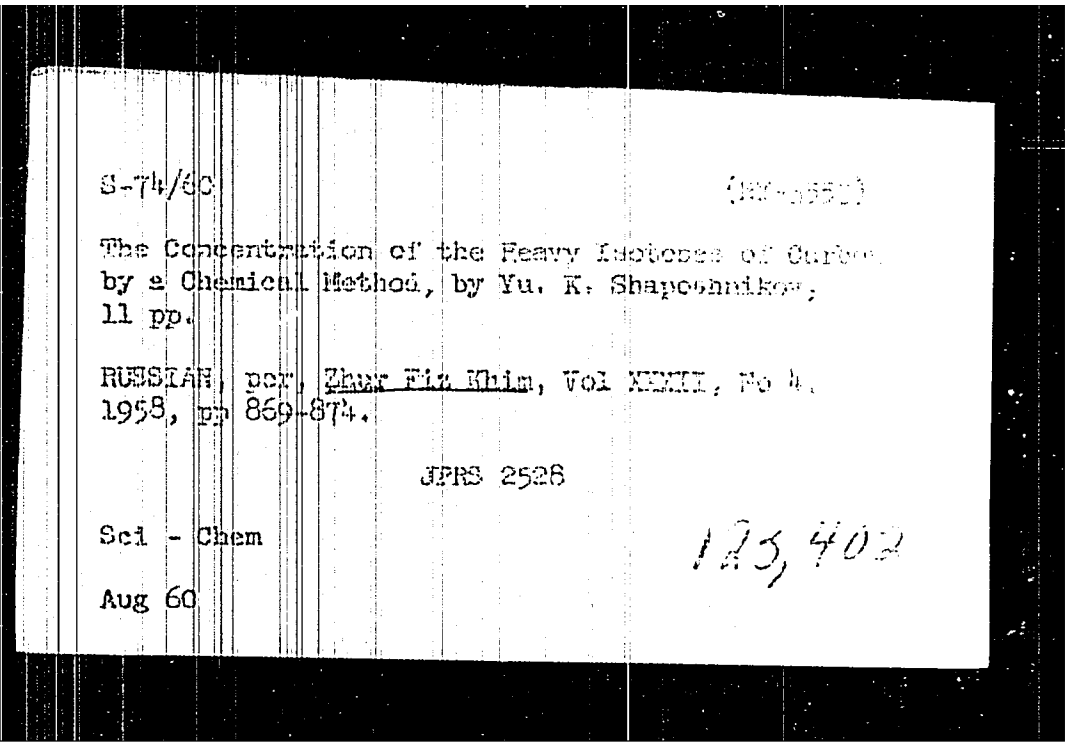
3440-3171
JPRS 3272

Sci - Phys, Chem
May 60

117,420

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4



S-74/60 (XX-XXXX)

The Concentration of the Heavy Isotopes of Carbon by a Chemical Method, by Yu. K. Shaposhnikov, 11 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 4, 1958, pp 869-874.

JPRS 2528

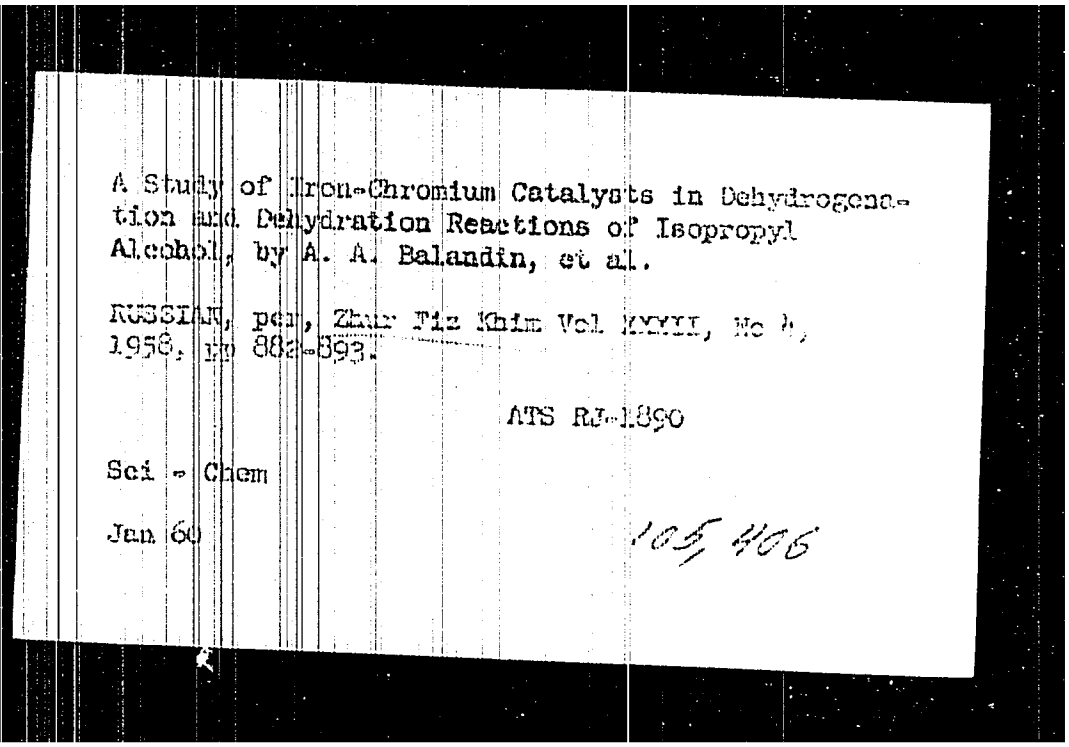
Sci - Chem

Aug 60

125,402

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4



A Study of Iron-Chromium Catalysts in Dehydrogenation and Dehydration Reactions of Isopropyl Alcohol, by A. A. Balandin, et al.

RUSSIAN, per, Zhur Fiz Khim Vol XXXII, No 2, 1958, pp 882-893.

ATS RJ-1890

Sci - Chem

Jan 60

105 406

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

The Application of Autoradiography to the Investigation of Cathodic Metal Deposits, by S. M. Kochergin, G. R. Fobedimskiy, A. V. Leont'yev, 4 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 4, 1958, pp 930-931.

CEA R-1534 Rev Tr
SLA 60-18123

Sci

125, 981

Vol 4, No 10
Sci

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Simultaneous Polarographic Determination of Oxygen and Hydrogen Peroxide During the Progress of Their Formation Under the Action of Radiation, by V. Medvedovskii.
RUSSIAN, per, Zhurnal Fizicheskoi Khimii, Vol 32, 1958, pp 932-934.
NTC-71-12489-07E

Nov 71

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

15 433 GF-4

DAVTYAN O. K.

Development of a new method of discovering leaks (outflows) in vacuum systems and high-pressure equipment

Ausarbeitung einer neuen Methode zur Entdeckung von Undichtigkeiten (Ausflüssen) in Vakuumsystemen und in Hochdruckapparaturen

Zhur. Fiz. Khim., 32, 935-936 (1958)

German

Euratom

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Photoreduction Mechanism of Chlorophyll and Its Sensitizing Effect, by V. B. Yevstigneyev, 15 p.

RUSSIAN, per. Zhur Fiz Khim, 1958, Vol XXXII, No 5, pp 969-980.

SLA 59-17412

Sci
Feb 60
Vol 2, No 9

10Z058

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

An Optical Investigation of the Molecular Structure of Derivatives of Sym-Triazine. II. The Ultraviolet Absorption Spectra, Molecular Structure, and Analysis of Ammeline and Ammelide, by N. I. Mukina, A. I. Finkel'shtein,

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 5, 1958, pp 981-985.

Assoc Tech Serv RJ-1434

Sci - Chem
Apr 59

85-3/3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Polukarov, Yu. M.
INVESTIGATION OF THE STRUCTURE AND MAGNETIC CHARACTERISTICS OF ELECTRODEPOSITED FERROMAGNETIC METALS AND ALLOYS. I. NICKEL. [1960] 19p. 27 refs.
Order from LC or SLA mi$2.40, ph$3.30 61-10122

Trans. of Zhurnal Fizicheskoy Khimii (USSR) 1958, v. 32, no. 5, p. 1008-1015.
Other translations are available from ATS $10.65 as ATS-14M42R [1960] 9p. and from LC or SLA mi$2.40, ph$3.30 as 59-17256 [1959] 13p.

Experiments are described which showed that, due to the increase in stresses and strains of expansion in coatings, the coercive force of electrolytic nickel deposits increases when the pH of the electrolyte is increased. Under conditions where the pH considerably exceeds the value corresponding to the limit of the formation of the hydrate in the solution, a change is possible in the character of crystallization of the
(Chemistry--Physical, TT, v. 5, no. 4) (over)

61-10122

1. Nickel--Electrodeposition
2. Nickel--Magnetic properties
I. Polukarov, Yu. M.
II. Title: Nickel

143,222

NLL M3496
ATS-14M42R
ATS-RJ-2604

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Oxidation of Ethylene to Ethylene Oxide on a Silver Catalyst, by A. I. Kurilenko, et al.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 5, 1958, pp 1043-1048.

ATS RJ-1614

Sci - Chem
Jul 59

90,443

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Effect of the Nature of the Gas Medium on the Mechanical Destruction of Polymers, by N. K. Baramboim.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 5, 1958, pp 1049-1054.

ATS RJ-1853
SLA 59-20290

Sci - Chem

Jan 60

105,061

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Heats of Atomic and Molecular Chemisorption of Hydrogen on Nickel, Iron, Chromium and Platinum, by N. N. Kavtaradze,

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 5, 1958, pp 1055-1063.

ATS RJ-2170

Sci - Chem

May 60

115 446

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

A Spectroscopic Study of the Turbulent Flame by
V. Ya. Baserich, 5 pp.

RUSSIAN, per, Zhurn. Fiz Khim., Vol XXXII, May
1959, pp 1077-1080.

8

ACSI H-2479 A

Sci - Physics

May 60

115,619

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

A Method for Confirming and Predicting Data Concerning Phase Equilibriums in Multicomponent Systems, by V. B. Kogen, 11 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 5, 1958, pp 1095-1102.

SLA 60-17730

Sci

OTS 129,402

OTS, Vol IV, No 3

Sep 60

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Influence of the Electrophysical Properties of Germanium on Its Anodic Dissolution Process, by E. A. Efimov, I. G. Erusalimchuk, 8 pp.

RUSSIAN, per, Zhur Fiz Khim, 1958, Vol XXXII, No 5, pp 1103-1106.

SLA 59-14306

OTS

Sci - Phys
OTS I, 12
Jul 59

92, 336

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

An Experimental Study of the Stability of Open Laminary Diffusion Flames, by A. I. Maklakov, [illegible] pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, May 1958, pp 1107-1115.

ACSI M-2479 B

Sci - Chem

May 60

115,621

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

An Investigation into the Critical Conditions of Gaseous Ozone Ignition, by S. A. Khmelnetskaya, S. Ya. Pshezhetskiy, 11 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, May 1958, pp 1122-1130.

ACSI H-2479 C

Sci - Chem

May 60

115,620

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

A Method for Determining the Total and Partial Saturated Vapor Pressure of Liquid Binary Mixtures Over the Range 0.1 -10 mm Hg, by S. I. Skliyarenko, Yu. U. Kamenon, 9 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, 1958, pp 1149-1152.

AEC 3411

Sci - Phys

Dec 58

78,268

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

A Method for Cryoscopic Measurements, by T. N. Sumrokova, G. I. Arsenov.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 5, 1958, pp 1153-1154.

ATS RJ-1680

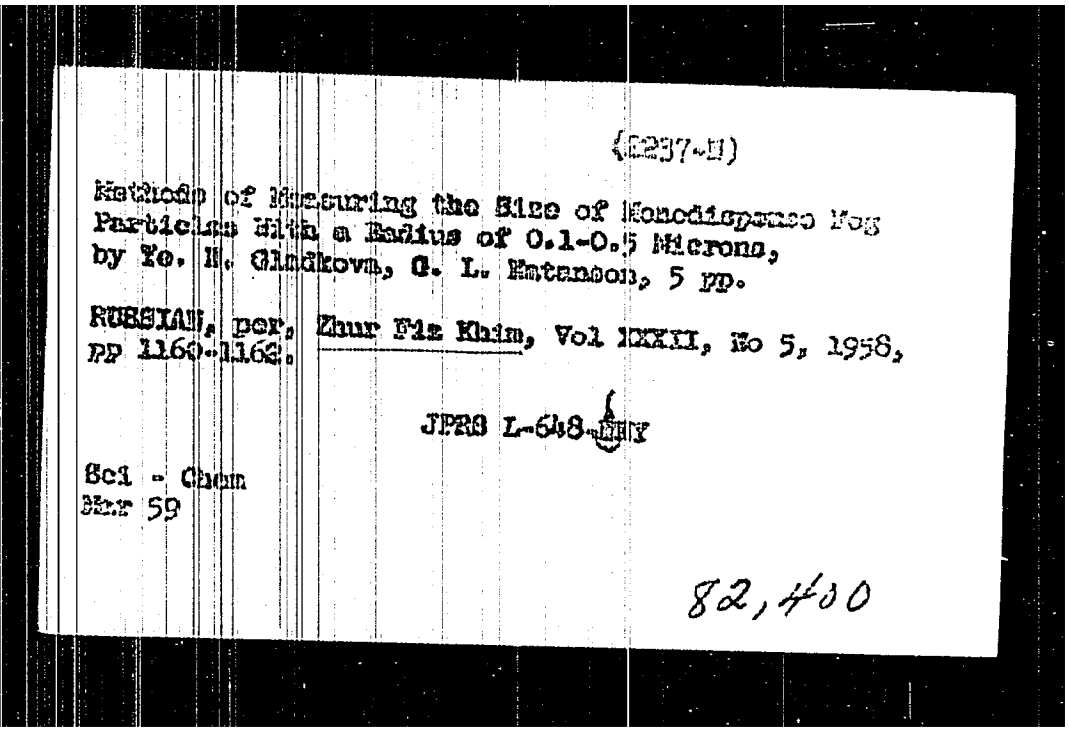
Sci - Chem

Jul 59

90,854

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4



(2237-U)

Method of Measuring the Size of Monodisperse Fog Particles With a Radius of 0.1-0.5 Microns, by Ye. N. Gindkova, G. L. Entanson, 5 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 5, 1958, pp 1160-1162.

JPRS L-648-N/Y

Sci - Chem
Mar 59

82,400

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Linear Conformities Between Different
Physicochemical Properties of Hydrocarbons,
by V. M. Tatevskii,

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 5,
pp 1168-1170, 1958,

C.S.I.R.O.

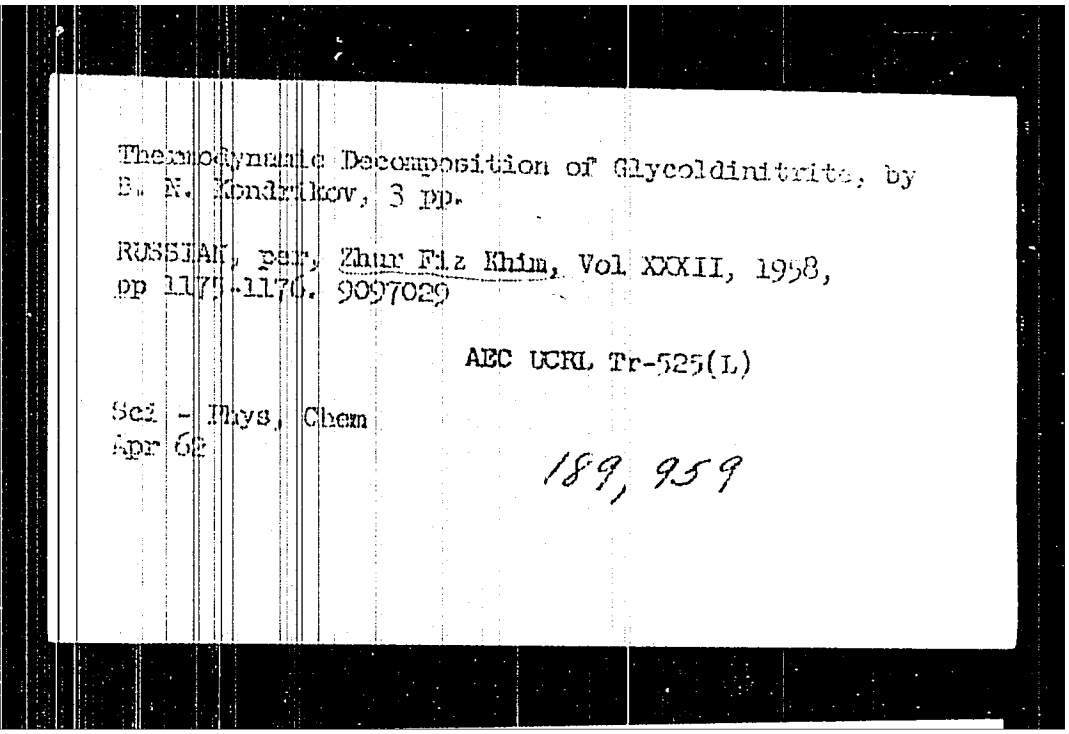
Sci - Chem

May 60

116,409

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4



Thermodynamic Decomposition of Glycoldinitrite, by
B. N. Kondrikov, 3 pp.

RUSSIAN, per: Zhur Fiz Khim, Vol XXXII, 1958,
pp 1175-1176. 9097029

AEC UCRL Tr-525(L)

Sci - Phys, Chem
Apr 62

189, 959

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

(NY 5023)

Analytical Solution of the Problem of Thermal Explosion for the Cylindrical Case, by D. A. Frank-Kamenetskiy, 6 pp.

RUSSIAN, per. Zhur. Fiz. Khim, Vol XXXII, No 5, 1958, pp 1162, 1163.

JPRS 5869

Sci - Phys

Oct 60

129,603

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

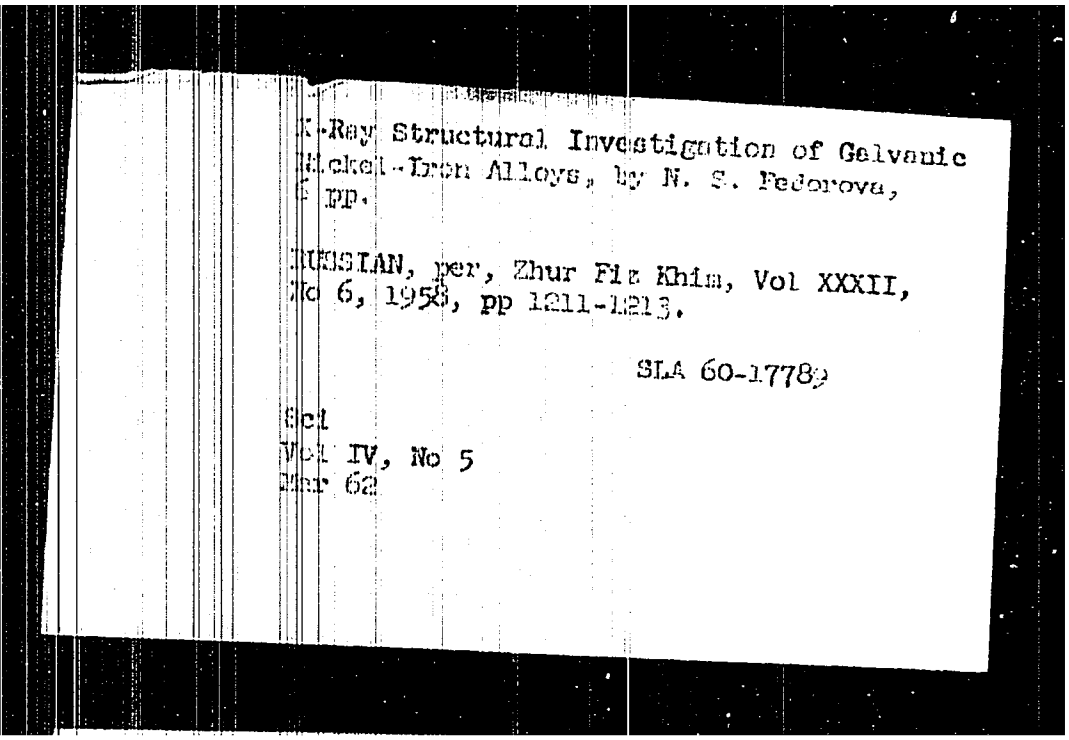
APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

K. V. Chmutov, Resolution of the All-Union Conference on Chromatography, Moscow, 3-6 Feb 58, Zhurnal Fizicheskoy Khimii, Vol 32, No 5, May 58, pp 1184-1185.

SIR No 13 (3)

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4



X-Ray Structural Investigation of Galvanic
Nickel-Iron Alloys, by N. S. Fedorova,
2 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII,
No 6, 1958, pp 1211-1213.

SLA 60-1778

Sel
Vol IV, No 5
Mar 62

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

The Hydrogen Adsorption Properties of Metals as a Function of Their Position in the Mendeleyev Periodic System of Elements, by B. B. Kantsarenko, 8 pp.

RUSSIAN, per. Zhur Fiz Khim, Vol. XXXII, 1958, pp 1214-1217.

AEC/SCL-T-234

Bal - Phys

May 59

86,973

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

A Method For the Quantitative Determination of Cyclohexanone and Cyclohexanol in the Oxidation Products of Cyclohexane by Infrared Absorption Spectra, by I. V. Berezin.
RUSSIAN, per, Zh Fiz Khim, Vol 32, No 6, 1958, pp 1218-1225.
ATS-4751

Sci
Dec 68 368,687

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

The Kapplestic Method for Determining the Mean Molecular Weight, by S. A. Pavlova, I. I. Tverdokhlebova.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 6, 1958, pp 1313-1316.

NIL M. 2512

Sci - Chem

Nov 51

173,877

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Studies of the Cathodic Process During Electrolysis of the Pure Molten Chlorides of Calcium, Sodium and Potassium, by L. Smakii, 28 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, 1958, pp 1393-1403.

AEC Tr 3667

Sci - Chem

Jun 59

90,070

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Methods and Equipment for Physical-Chemical Research, Porometer for Low Pressure (Low Pressure Porometer), by M. M. Dubinin,

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 6, pp 1404-1406, 1958

C.S.I.R.O.

Sci - Chem

May 60

116,408

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

The Determination of Diffusion Coefficients in Fused Oxides, by Yu. P. Nikitin, et al.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 6, 1958, p 1420.

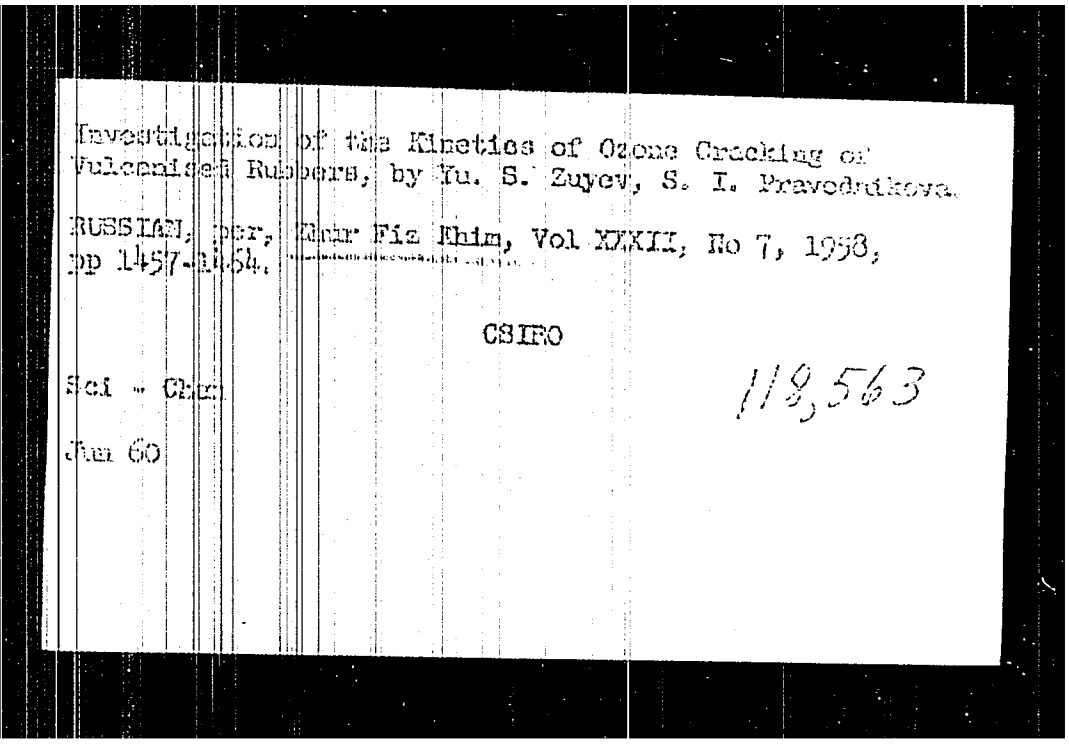
ATS RJ-2049

Sci - Chem
Dec 59

104,056

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4



Investigation of the Kinetics of Ozone Cracking of Vulcanized Rubbers, by Yu. S. Zuyev, S. I. Pravednikova.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 7, 1958, pp 1457-1464.

CSIRO

Sci - Chem

Jun 60

118,563

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Solubility of Gases in Cyclohexane, by D. S. Tsiklis, G. M. Svetlova, 12 pp.

RUSSIAN, per, Zhur R Fiz Khim, Vol XXXII, No 7, 1958, pp 1476-1480.

SIA 59-10410

Sci - Med
Vol 2, No 1

97,292

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Electrochemical Reaction Mechanism on the Mercury Cathode in Uranium Salt Solutions, by G. S. Tyurikov, et al.

RUSSIAN, per Zhur Fiz Khim, Vol XXXII, 1958, pp 1490-1496.

*AEC

Sci - Phys, Chem
Jul 62

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Isotopic Oxygen Exchange in Acid and Salt Solutions and its Mechanism, by A. I. Bordukiy, N. A. Vysotskaya. RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 7, 1958, pp 1521-1531.
Dept of Navy Tr 4300/APL T-1461

Sci - Chem
Nov 65

292,742

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

On the Light Scattering Method of Investigating the Polydispersity of Polymers, by B. E. Rekin, M. G. Churaeva, 7 pp.

RUSSIAN, Zhur Fiz Khim, Vol XXXII, 1958, pp 1521-1525.

AEC Tr 3601.

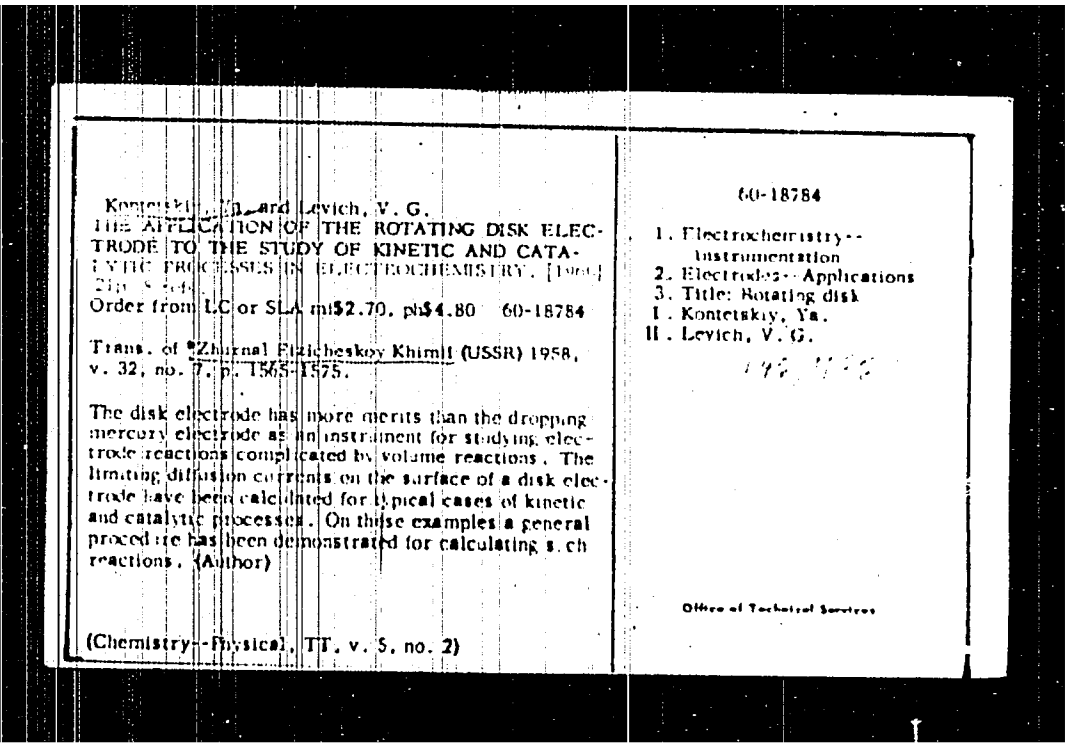
Bkd - Phys

Apr 59

85,742

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4



Kontetskiy, Ya. and Levich, V. G.
THE APPLICATION OF THE ROTATING DISK ELECTRODE TO THE STUDY OF KINETIC AND CATALYTIC PROCESSES IN ELECTROCHEMISTRY. [Trans.]
Zhur. Fiz. Khim.
Order from: LC or SLA mi$2.70, ph$4.80 60-18784

Trans. of *Zhurnal Fizicheskoy Khimii (USSR) 1958, v. 32, no. 7, p. 1565-1575.

The disk electrode has more merits than the dropping mercury electrode as an instrument for studying electrode reactions complicated by volume reactions. The limiting diffusion currents on the surface of a disk electrode have been calculated for typical cases of kinetic and catalytic processes. On thise examples a general procedure has been demonstrated for calculating such reactions. (Author)

(Chemistry--Physical, TT, v. 5, no. 2)

60-18784

1. Electrochemistry--Instrumentation
2. Electrodes--Applications
3. Title: Rotating disk
I. Kontetskiy, Ya.
II. Levich, V. G.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

14 329 Fr-2

ZUBOVA E. V., KARATAEVA L. A.

Chemical transformations in the solid state at pressures of 50,000 kg/cm^2 and a shearing stress

Transformations chimiques se produisant en phase solide sous l'action simultanée d'une pression de 50.000 kg/cm^2 et d'un cisaillement

Zhur. Fiz. Khim., 32, No. 7, 1576-1579 (1958)

F/R-580 - French
Abs.: NSA, 13, No. 1, ref. 102 (1959) - English

Euratom

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

A Study of the Thermodynamic Properties of Binary Iron-Manganese System in the Solid State, by A. P. Lyublinov, A. A. Granovskaya, L. Ye. Berenshteyn, 10 p.

RUSSIAN, per, Zhur Fiz Khimii, 1958, Vol XXXII, No 7, pp 1591-1596.

SLA 60-10369

Sci
Apr 60
Vol III, No 3

112,042

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Certain Laws of Photochemical Ozone Decomposition in the Liquid Phase, by A. V. Pankratov, S. Ya. Pshezhetskiy.
RUSSIAN, Per, Zhur Fizicheskoy Khimii,
Vol XXXII, No 7, 1958, pp 1605-1611.
*NASA TT F-10,388

Sci-Phys
Nov 66

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Makarov, L. L., Evstrop'ev, K. K., and Vlasov, Yu. G.

THE OSMOTIC AND ACTIVITY COEFFICIENTS OF RbCl, CsCl AND KI IN HIGHLY CONCENTRATED AQUEOUS SOLUTIONS (Osmoticheskie Koeffitsienty i Koeffitsinty Aktivnostei RbCl, CsCl i KI v Vodnykh Rastvorakh pri Vysokikh Kontsentratsiyakh) tr. by Ivan Mittin, 1962 [10]p. 5 refs.

Order from OTS, SLA, or ETC $1.10 TT-63-19591

Trans. of Zhurnal Fizicheskoj Khimii (USSR) 1958, v. 32, no. 7, p. 1618-1621. (Abstract available)

DESCRIPTORS: *Electroosmosis, Osmosis, *Electrolytes, *Chlorides, *Rubidium compounds, *Cesium compounds, *Potassium compounds, Thermodynamics, Solubility, Solutions, Equations,

(Chemistry--Physical, TT, v. 11, no. 2) (over)

TT-63-19591

I. Makarov, L. L.
II. Evstrop'ev, K. K.
III. Vlasov, Yu. G.
IV. Geological Survey, Denver, Colo.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Effect of Surface-Active Substances on the Diffusion Rate of Electrolytic Hydrogen Through Iron, by A. I. Oshe, 12 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 7, 1958, pp 1622-1631. 9095541

AEC Tr-4856

Sci - Phys, Chem
Mar 62

186,496

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Phase and Volume Relationships in Liquid-Gas Systems at High Pressures. Part 6. The Cyclohexane-Hydrogen System, by I. R. Krichevskiy.
RUSSIAN, per, Zh Fiz Khim., Vol 32, No 9, 1958, pp 2080-2086.
ATS-RJ-5837

Apr 72

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Dobychin, D. P.
THE DIFFUSION OF WATER VAPOR AND THE FLOW OF AIR THROUGH POROUS GLASS (Diffuziya Vodyanykh Parov i Techenie Vozdukha v Poristom Stekle). [1963] [12p] (foreign text included) 9refs
Order from OTS, SLA, or ETC $1.60 TT-64-10573

Trans. of "Zhurnal Prikladnoi Khimii (USSR) 1959, v. 32, no. 10, p. 2336-2339.
A trans. is available in French from OTS or SLA $1.10 as TT-62-25075, CEA-tr-R 1581, 24 Mar 62 [9p].

DESCRIPTORS: *Porous materials, *Glass, Water vapor, Diffusion, *Gas flow, Sorption, Catalysis.

(Chemistry--Physical, TT, v. 11, no. 5)

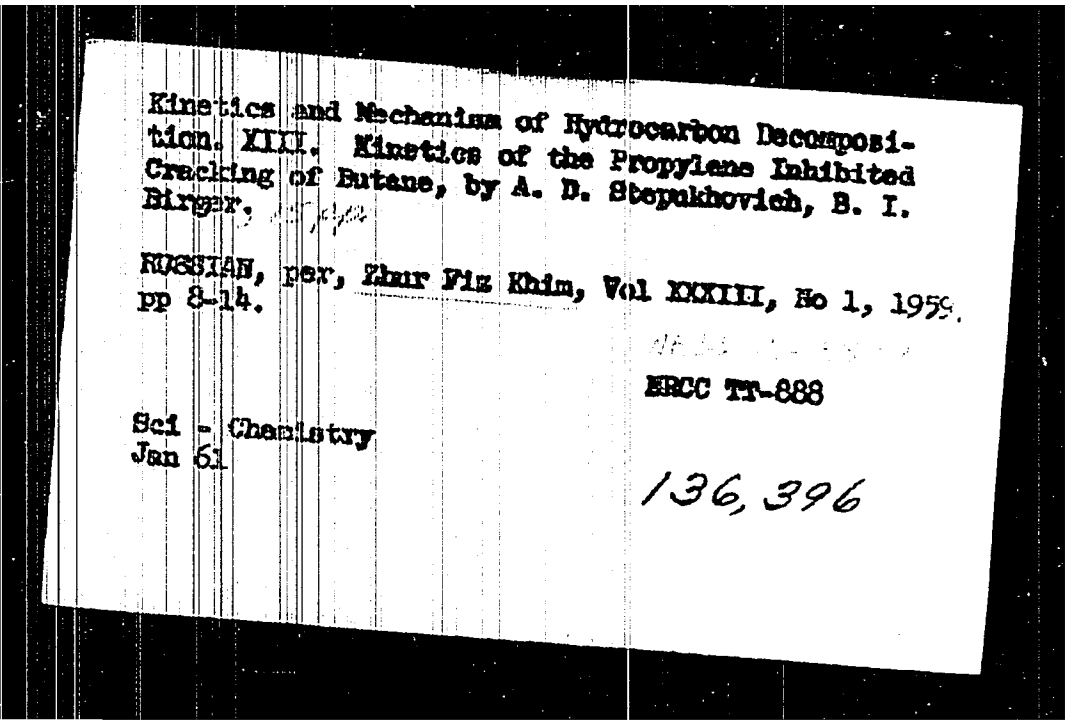
TT-64-10573

I. Dobychin, D. P.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4



Kinetics and Mechanism of Hydrocarbon Decomposition. XIII. Kinetics of the Propylene Inhibited Cracking of Butane, by A. D. Stepukhovich, B. I. Birger.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 1, 1959, pp 8-14.

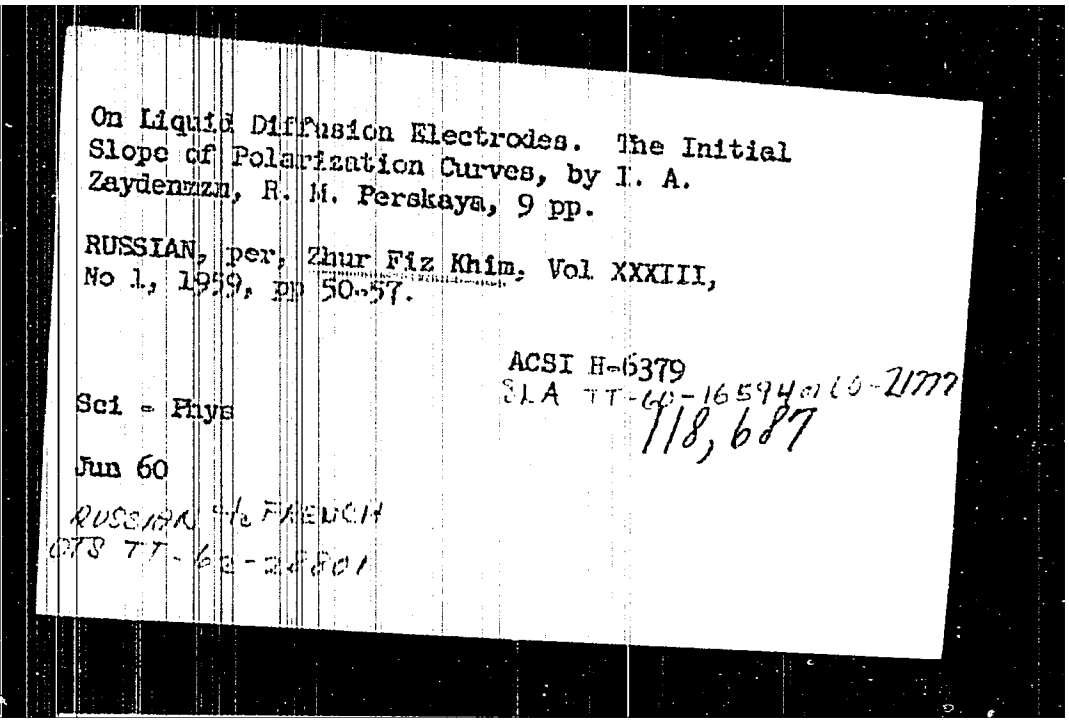
ERCC TT-888

Sci - Chemistry
Jan 61

136,396

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4



On Liquid Diffusion Electrodes. The Initial Slope of Polarization Curves, by I. A. Zaydenmzn, R. M. Perskaya, 9 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 1, 1959, pp 50-57.

ACSI H-6379
SLA TT-60-16594 a (b)-2177
118,687

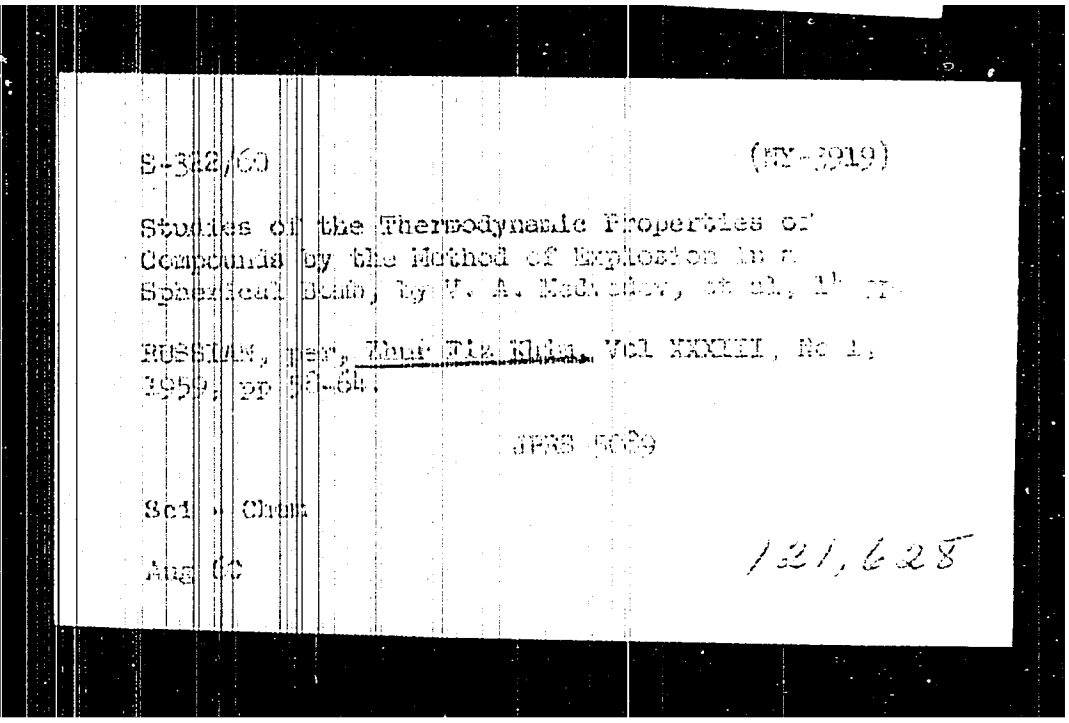
Sci - Phys

Jun 60

RUSSIAN & FRENCH
OTS TT-62-32801

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4



S-382/60 (FX-2919)

Studies of the Thermodynamic Properties of Compounds by the Method of Explosion in a Spherical Bomb, by V. A. Nadachov, et al, 14 pp

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 1, 1959, pp 93-64.

JPRS 5029

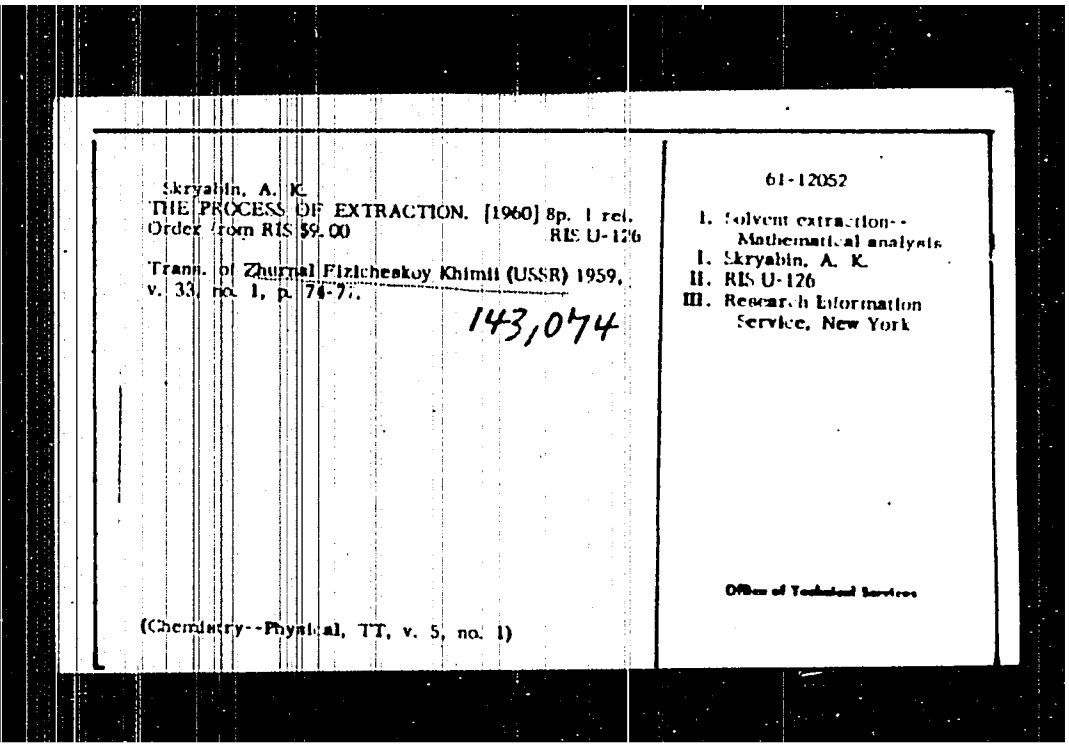
Sci - Chem

Aug 60

121,628

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4



Skryabin, A. K.
THE PROCESS OF EXTRACTION. [1960] 8p. 1 ref.
Order from RIS $9.00 RIS U-126

Trans. of Zhurnal Fizicheskoy Khimii (USSR) 1959, v. 33, no. 1, p. 76-77.

143,074

(Chemistry--Physical, TT, v. 5, no. 1)

61-12052

I. Solvent extraction--Mathematical analysis
I. Skryabin, A. K.
II. RIS U-126
III. Research Information Service, New York

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

The Crystalline State of Polymers. I. The Crystallization of Polymers in the Process of Polymerization, by D. D. Chegodayev,

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 1, 1959, pp 96-99.

ATS RJ-2119

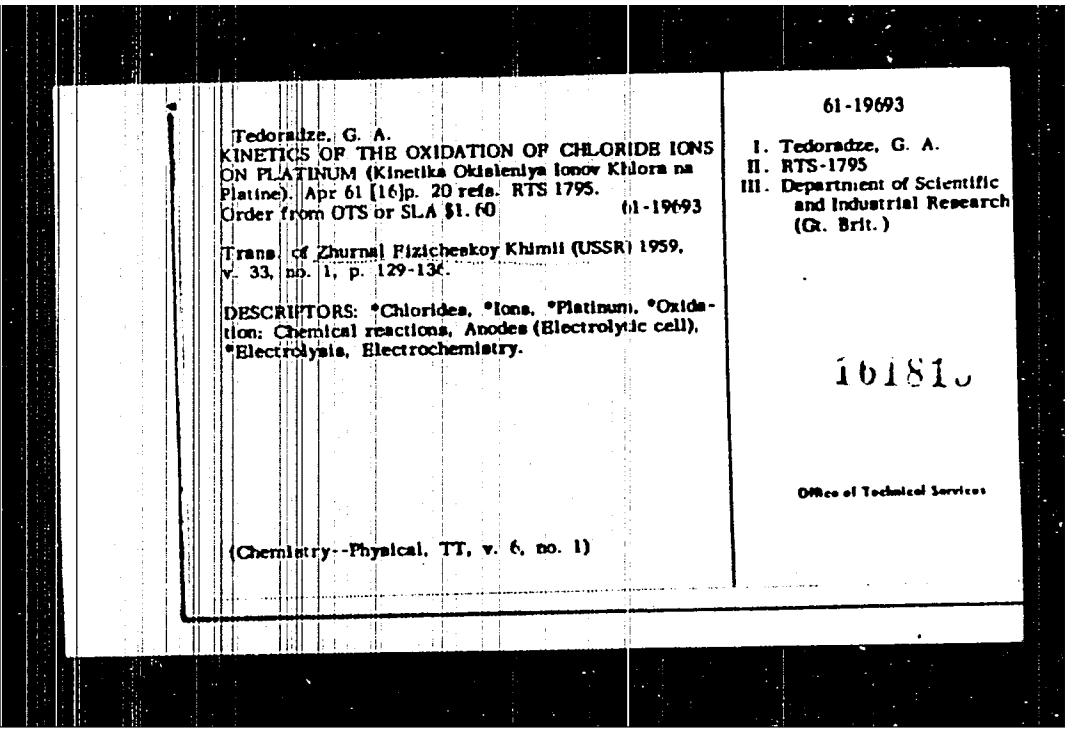
Sci - Chem

May 60

115 406

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4



Tedoradze, G. A.
KINETICS OF THE OXIDATION OF CHLORIDE IONS ON PLATINUM (Kinetika Okisleniya Ionov Khlora na Platine). Apr 61 [16]p. 20 refs. RTS 1795.
Order from OTS or SLA $1.60 61-19693

Trans. of Zhurnal Fizicheskoy Khimii (USSR) 1959, v. 33, no. 1, p. 129-136.

DESCRIPTORS: *Chlorides, *Ions, *Platinum, *Oxidation: Chemical reactions, Anodes (Electrolytic cell), *Electrolysis, Electrochemistry.

(Chemistry--Physical, TT, v. 6, no. 1)

61-19693

I. Tedoradze, G. A.
II. RTS-1795
III. Department of Scientific and Industrial Research (Gt. Brit.)

16181

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Delimarskii, Yu.K., and Gorodyskii, A.V.
AU SUJET DE LA TENSION DE DECOMPOSITION DES ELECTROLYTES (Decomposition Potentials of Electrolytes). 10p. 12refs. CNRS-VIII 512.
Order from OTS, ETC or CNRS $0.80 TT-62-26748

Transl. in French of Zhurnal Fizicheskoi Khimii (USSR) 1959, v.33, no.1, p.137-140.

DESCRIPTORS: *Electrolytes, *Electric potential, Decomposition, Electric currents.

(Chemistry--Physical, TT, v. 11, no. 7)

TT-62-26748

I. Delimarskii, Yu.K.
II. Gorodyskii, A.V.
III. CNRS-VIII 512
IV. Centre National [illegible] che Scientifique, [illegible]

Office of Technical Services
European Translations Centre

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Statistics of Adsorbed Particles in the Electronic Theory of Chemisorption, by Sh. M. Kogan,

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, 1959, pp 156-160.

AEC Tr-4298
ATS/RT-3028

Sci - Phys
24 Feb 61

141,070

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Oscillographic Investigations of the Kinetics of the Electrode Processes on Metallic Electrodes, by V. J. Kravtsov, 18 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 1, 1959, pp 165-173.

OTS 60-16595

Sci
Mar 62
Vol 4, No 4

187,259

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Influence of Boron Fluoride on the Catalytic Activity of Aluminium Oxide and Aluminosilicates, by T. V. Antipina, E. N. Avdonyna,

RUSSIAN, per Zhur Fiz Khim, Vol XXXIII, No 1, pp 192-196. 1959

C.S.I.R.O.

Sel

May 60

116,095

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

The Influence of Surface Active Substances on the Motion of Gas Bubbles in Hydrocarbon Liquids, by A. Yu. Koshevnik, et al.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 1, 1959, pp 197-203.

ATS RJ-1964

Sci - Chem

Jan 60

105 757

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Ushakova, G. S. and Eremin, E. N.
FORMATION D'OZONE À PARTIR DES PRODUITS DE LA DISSOCIATION DU CO_2 DANS LA DÉCHARGE OBSCURE [Obrazovanie Ozona iz Produktov Dissotsiatsii CO_2 v Tlevo shchem Razryade] (Formation of Ozone Starting with Dissociation Products of CO_2 in the Dark Discharge) tr. by Kefeli. 23 Feb 60 [6 p. 1 ref. CEA Trans. no. R 832 (text in French). Order from OTS or SLA $1.10 61-23794

Trans. in French of Zh[urnal] Fiz[icheskoi] Khim[ii] (USSR) 1959 v. 33, no. 1, p. 233.

DESCRIPTORS: *Ozone, *Glow discharges, *Carbon dioxide, *Dissociation.

A discharge tube of the type Vud, with aluminum electrodes, was used and the reaction products were frozen. A 250-ma current and a 2.4- to 2.5-kv potential were used. In order to reduce the dissociation (Chemistry--Physical, TT, v. 6, no. 6) (over)

61-23794

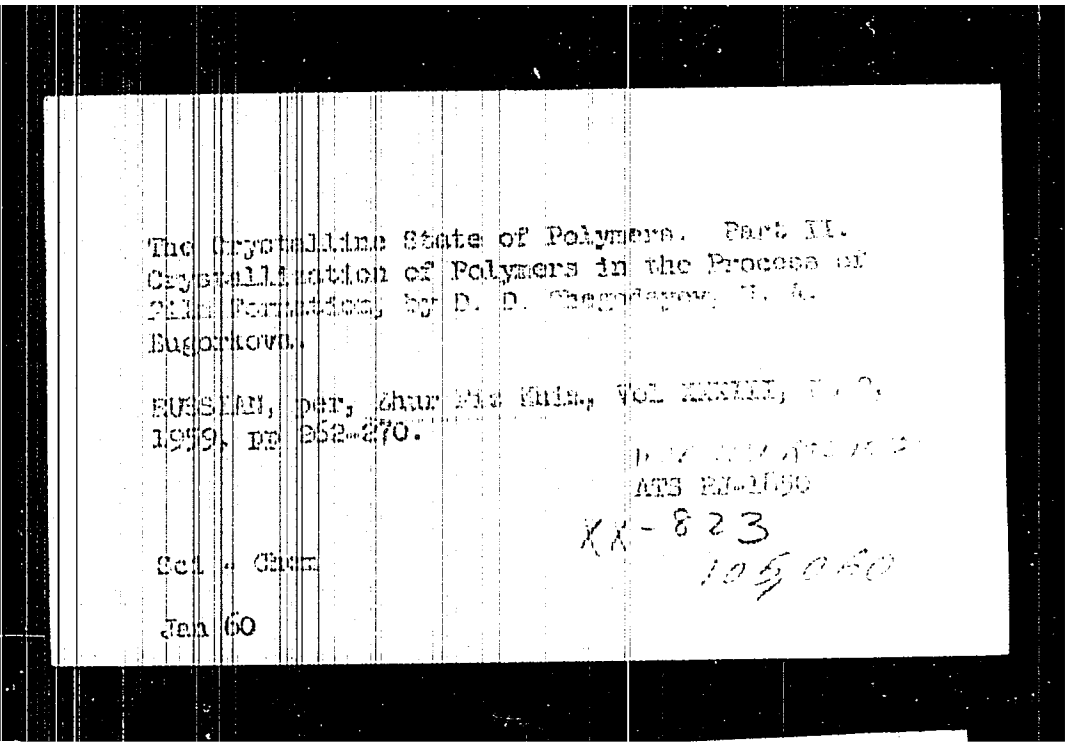
I. Ushakova, G. S.
II. Eremin, E. N.
III. CEA-tr-R832
IV. Commissariat à l'Energie Atomique (France)

176691

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4



The Crystalline State of Polymers. Part II. Crystallization of Polymers in the Process of [illegible] Polymerization, by D. P. [illegible], N. A. Bugorkova.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 2, 1959, pp 262-270.

AMS RU-1090

KK-823

105 050

Sci. Chem

Jan 60

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

The Porous Structure and Specific Surface Area of $NiO-Al_2O_3$ Catalysts and the Variation of These Properties With Changes in Composition and Thermal Treatment, by A. M. Rubinshteyn, et al.

RUSSIAN, per, Zhur Fiz Khim, Vol XXIII, No 2, 1959, PP 310-317.

DSIR LLU M.1405
(loan)
SCA 40-[illegible]
128,765

Sci - Chem

Oct 60

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

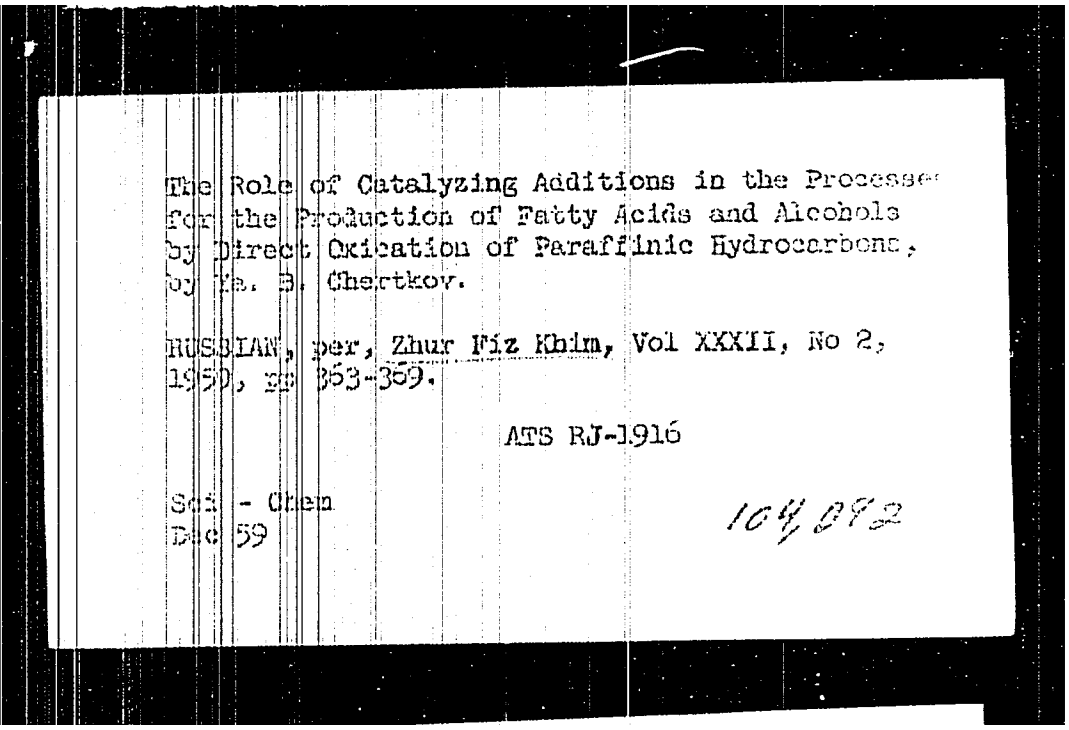
APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

An Investigation Into the Thermodynamics of Solid Solution of Gold, Silver and Copper, by A. N. Nesmeyanov, RUSSIAN, per. Zhurnal Fizicheskoi Khimii, Vol XXXIII, No 2, 1959, pp 342-348.
*CFSTI TT 67-51425

Sci-Phys
Jun 67

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4



The Role of Catalyzing Additions in the Processes for the Production of Fatty Acids and Alcohols by Direct Oxidation of Paraffinic Hydrocarbons, by Ya. B. Chertkov.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 2, 1958, pp 363-369.

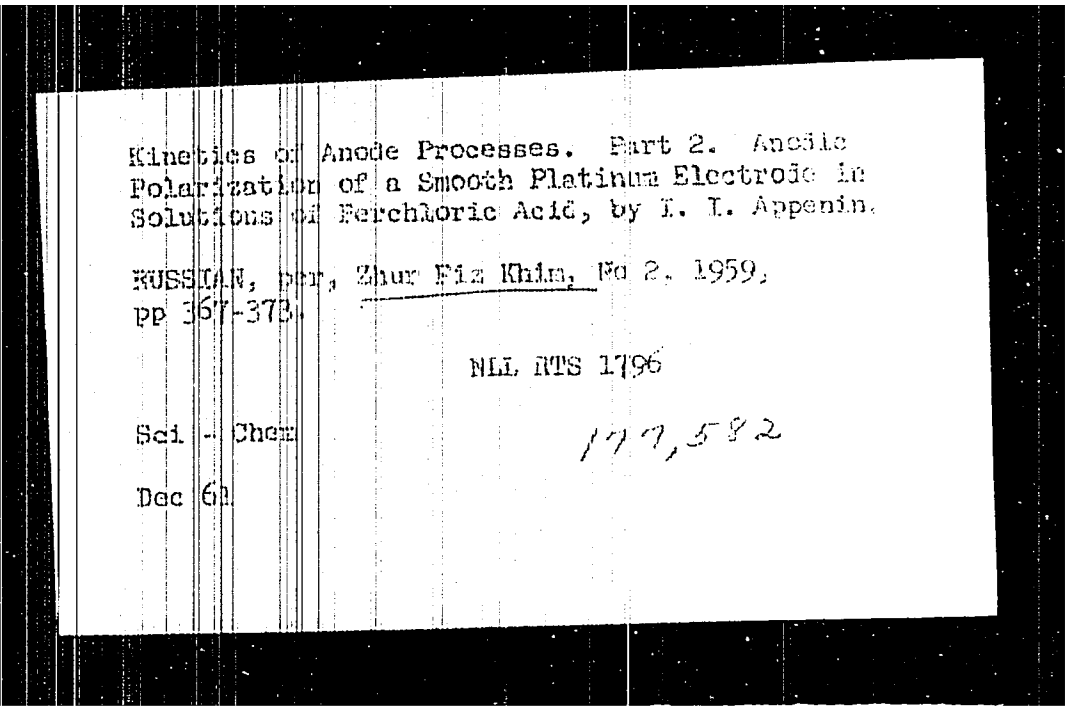
ATS RJ-1916

Sci - Chem
Dec 59

104 872

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4



Kinetics of Anode Processes. Part 2. Anodic Polarization of a Smooth Platinum Electrode in Solutions of Perchloric Acid, by I. I. Appenin.

RUSSIAN, per, Zhur Fiz Khim, No 2, 1959, pp 367-373.

NLL RTS 1796

Sci - Chem

177,582

Dec 60

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Mechanism of Metal Corrosion in Narrow Slits and Crevices, by I. L. Rozenfeld, I. K. Marshakov, 8 pp. UNCL

RUSSIAN, per, Zhur Fiz Khim, No 2, 1959, pp 411-415. 9560725

ATIC ISL-248/III

Sci - Chem

149698

Apx 61.

Telecon TC 41587

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Popov, D. K.
THE SZILLARD-CHAMBERS EFFECT IN THE γ-QUANTUM IRRADIATION OF CHROMATES AND BICHROMATES. [1960] [7]p. 6 refs.
Order from LC or SLA mi$1.80, ph$1.80 60-16906

Trans. of Zhurn[a]l Fiz[icheskoy] Khimii (USSR) 1959, v. 33 [no. 2] p. 405-410.

The [illegible] forming Cr^{49} formed from the alkaline metal and ammonium chromates and bichromates in line with the reaction $Cr^{50}(\gamma n)Cr^{49}$ was demonstrated. The enrichment factor is greater than 10^4. The retention factor in the irradiated solid preparations depends upon the time passing from the dissolution of the salt and the isolation of the Cr^{49} on iron hydroxide, whereas on irradiating aqueous solutions the retention is always of zero value. On dissolution of the irradiated crystals the unstable valence forms of chromium are distributed between Cr^{3} and Cr^{6}. (Author)
(Nuclear Physics--Isotope Separation, TT, v. 5, no. 3)

60-16906

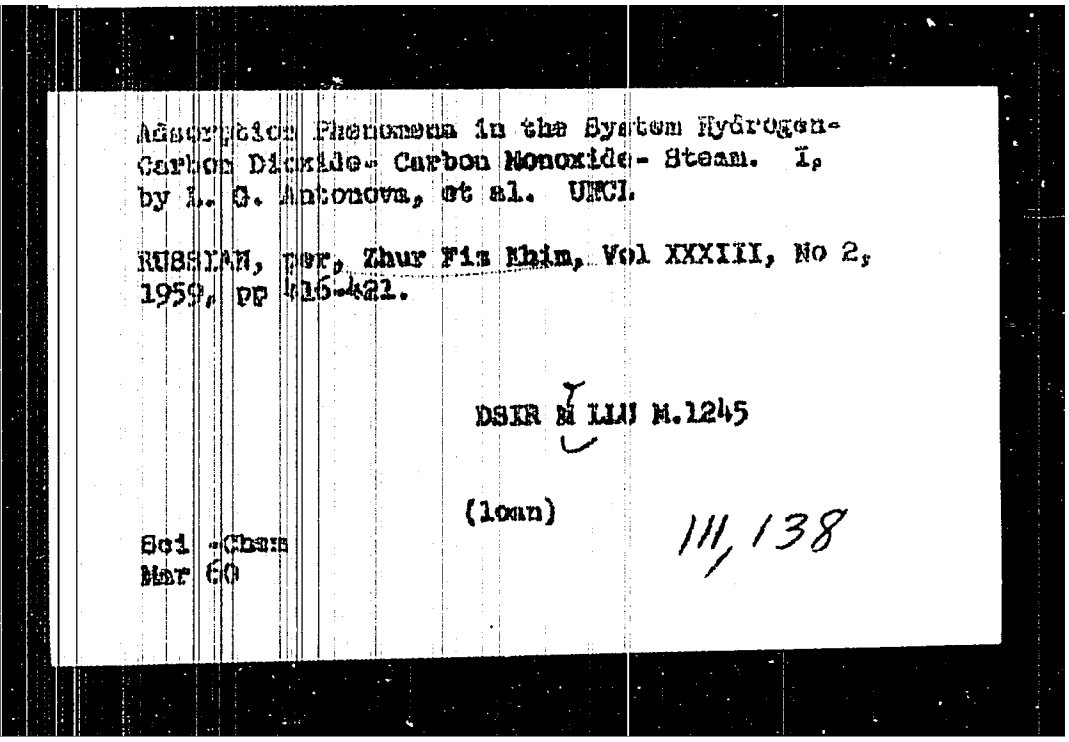
1. Chromium isotopes--Separation
2. Chromates--Effects of radiation
1. Popov, D. K.

142,946

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4



Adsorption Phenomena in the System Hydrogen-Carbon Dioxide- Carbon Monoxide- Steam. I.
by L. G. Antonova, et al. UKCl.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 2, 1959, pp 416-421.

DSIR M LLL M.1245

(1cmn)

111,138

Sci -Chem
Mar 60

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

On the Theory of Liquid Diffusion Electrodes II, Electrodes of Second Type, by I. A. Zaydeman, 5 pp

RUSSIAN, per, Zhur Fiz Khim, No 2, 1959, pp 437-440.

ACSI H-6378

Sci - Phys

May 60

114,509

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Investigation of the Capacitance of a Germanium Electrode by E. A. Yefimov, I. G. Yemel'yanchik, 10 pp.

RUSSIAN, per, Zhur Fiz Khim, 1959, Vol XXXIII, No 2, pp 441-446.

SLA 59-16138

Sci
Oct 59
Vol 2, No 3

99,727

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

The Catalytic Activity of Rare Elements in the Decomposition of Hydrogen Peroxide. II, by P. M. Perelman, et al. UKCL*

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 2, 1959, pp 452-455.

DSIR LUU N.1255

(leam)

Sci - Chem

111,130

Mar 60

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

The Radiation Oxidation of Nitrogen IV. Temperature Dependence and the Part Played by Ions in the Reaction Under the Action of Fast Electrons, by M. T. Dmitriev, S. Ya. Pshezhetskii, 20 pp.

RUSSIAN, par, Zhur Fiz Khim, Vol XXXIII, No 2, 1959, pp 463-470. 9213064

(LOAN) NLL Ref 5228.4 1963 (10.48?)
AEC-tr-1037

Sci - Phys

Oct 63

345,204

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Valency Condition of Chrome Ions in Compounds Formed During Thermal Dissociation of Chromic Anhydride, by T. V. Rode, A. A. Manenkov.

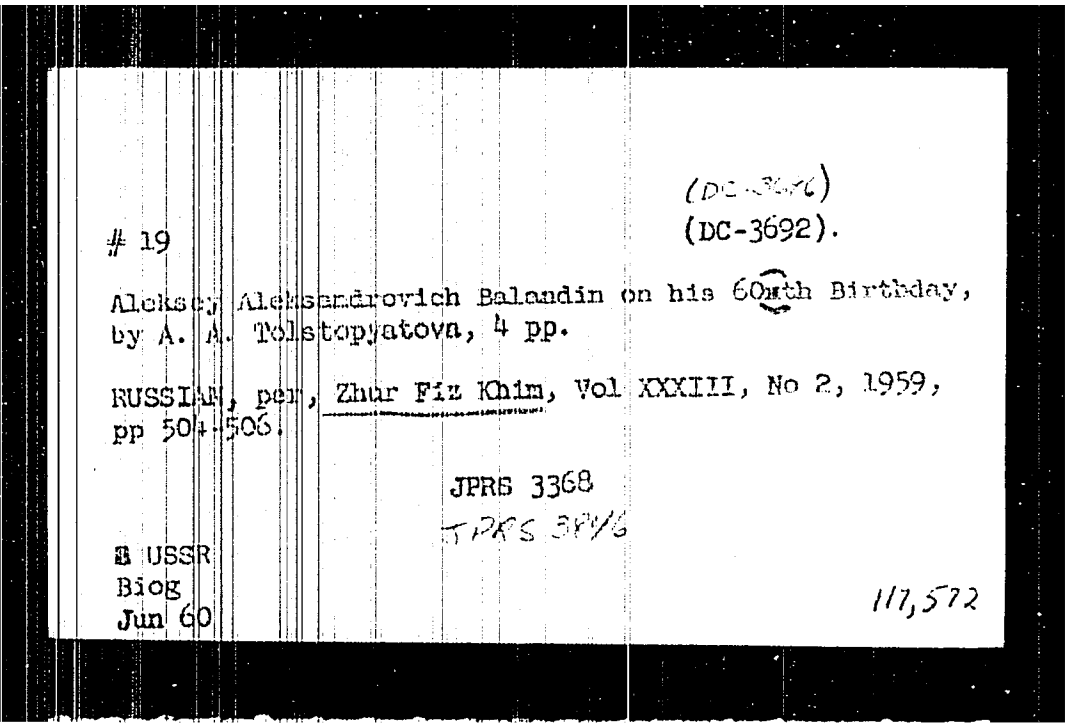
RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 2, 1959, p 503.

JIB T 3190

Sci
Jun 64

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4



(DC-3696)
(DC-3692).

19

Aleksey Aleksandrovich Balandin on his 60th Birthday, by A. A. Tolstopyatova, 4 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 2, 1959, pp 504-506.

JPRS 3368
JPRS 3696

USSR
Biog
Jun 60

117,572

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

(DC-3696)

Mikhail Isaakovich Temkin, by L. O. Apel'baum, A. I. Gel'bshteyn, N. V. Kul'kova, N. M. Morozov, 3 pp

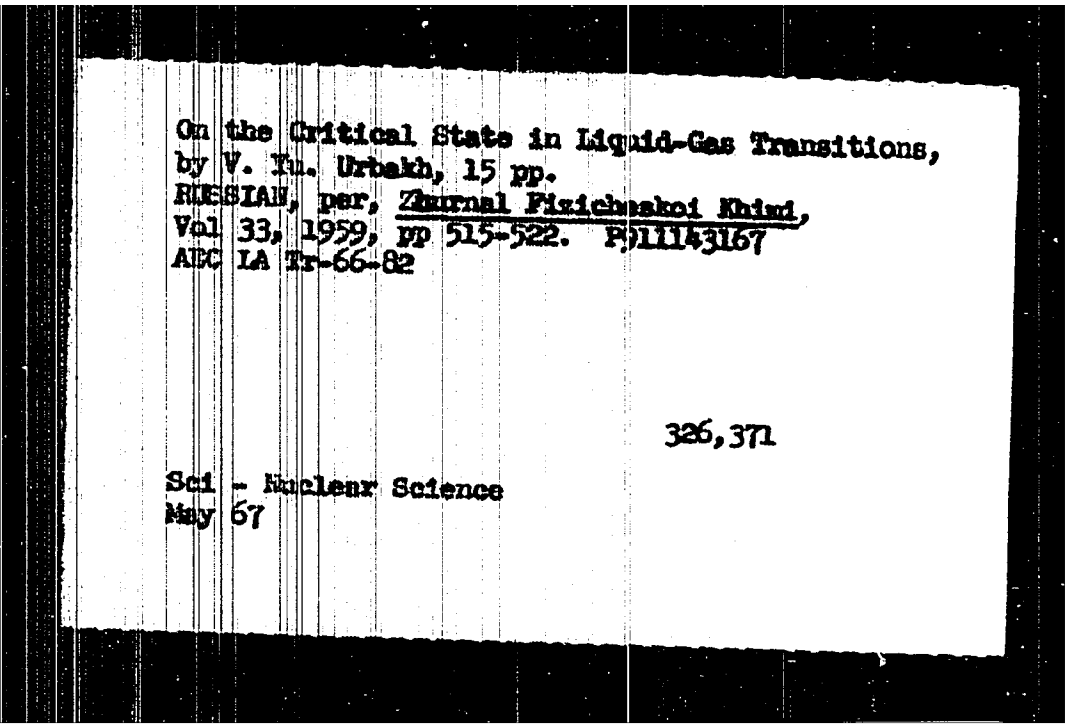
RUSSIAN, per, Zhur Fiz Khim, No 2, 1959, pp 507-508

JPRS 3846

USSR
Biog
Sep 60

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4



On the Critical State in Liquid-Gas Transitions,
by V. Ts. Urbakh, 15 pp.
RUSSIAN, per, Zhurnal Fizicheskoi Khimi,
Vol 33, 1959, pp 515-522. PB111143167
AEC LA Tr-66-82

326,371

Sci - Nuclear Science
May 67

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

The Relation of λ_0 to η and D of the Medium [O Zavisimosti λ_0 to η i D Sredy], by Ya. F. Mezhennyy, 7 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, [No 3], 1959, pp 550-553.

SLA 60-17726

Sci

OTS, Vol IV, No 3

133,060

Oct 60

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Perturbation of the Thermal Equilibrium Distribution in Thermal Dissociation of Diatomic Molecules, by E. E. Nikitin, 14 pp.
RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 3, 1959, pp 572-580. 9696629
FTD-TT-64-468

Sci - Nucl Sci
Apr 65

278,336

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

(NY-5022)

Equation of State and Thermodynamic Properties of Propylene, by Ya. Z. Kazavchinskiy, V. A. Zagoruchenko, 8 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 3, 1959, pp 662-664.

JPRS 5868

Sci - Phys

Oct 60

129,561

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

S-138/60 (NY-3706)

The Formation of Nitrogen Oxides in the Shock Wave of a Strong Explosion in Air, by Yu. P. Rayzer, 16 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 3, 1959, pp 700-709.

JPRS 2956

Sci - Phys

Jul 60

119,99?

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Discussion: The Relations Between the Energy of Electron Excitation and the Energy of Electroreduction of Aromatic Molecules, by Z. R. Grabovskiy, 6 pp.

RUSSIAN, Per, Zhur Fiz Khim, 1959, Vol XXXIII, No 3, pp 726-731.

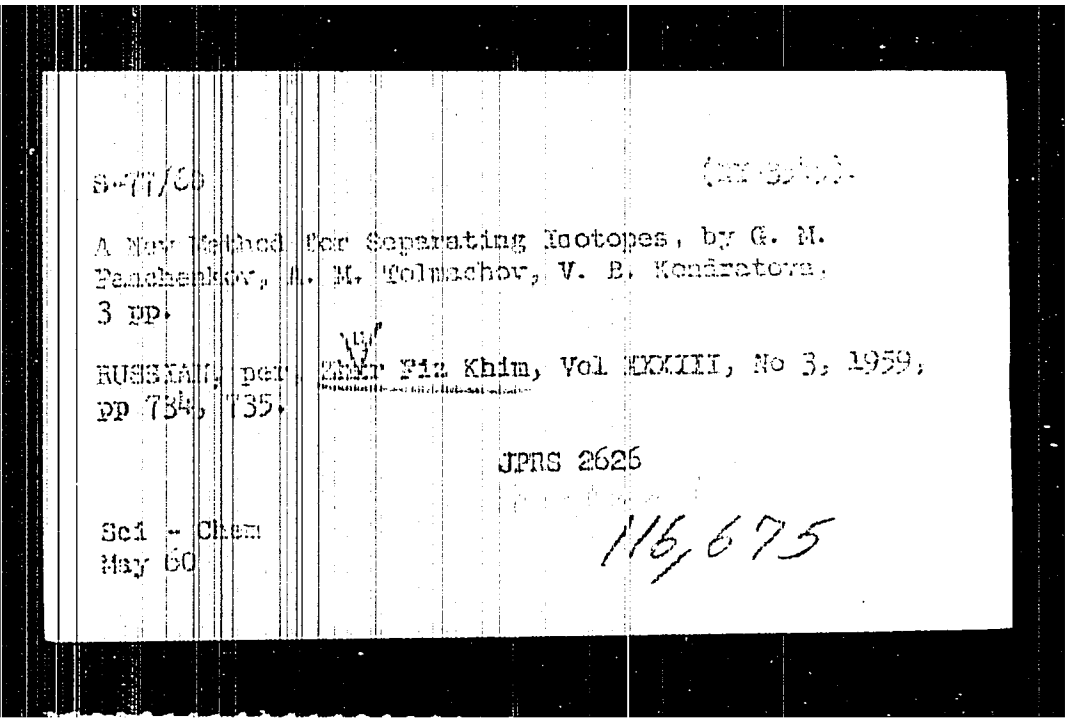
AFS-00132R

Sci
Oct 59
Vol 2, No 3

99,905

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4



S-77/60 (RR-3944).

A New Method for Separating Isotopes, by G. M. Panchenkov, A. M. Tolmachov, V. B. Konâratova. 3 pp.

RUSSIAN, per Zhur Fiz Khim, Vol XXXIII, No 3, 1959, pp 734, 735.

JPRS 2625

Sci - Chem
May 60

116,675

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

On Sintering (in the Solid Phase), by B. Ya. Pines, 11 pp.
RUSSIAN, per, Zhurnal Tekhnicheskoy Fiziki, Vol 16, No 6, 1946, pp 737-743. P911143667
AEC Sc-T-67-0907

326,358

Sci - Mech
May 67

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Apr 29, 59

K. A. Gol'bert, K. S. Ponomareva, "A. A. Zhukhovitskiy," Zhurnal Fizicheskoy Khimii, Vol 33, No 3, Mar 59, pp 738-739.

SIR T-23.

L. M. Bl.

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

The Application of a Flow Counter for Measuring the Moisture Permeability of Films from Synthetic Materials with the Aid of Tritium Labelled Water, by E. E. Finkel, K. V. Chmutov, 11, pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 4, 1959.

ACSI H-6287

Sci - Chem

May 60

115 546

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Determination of the Parameters of Space and Boundary Diffusion of Silver in Aluminum, by S. D. Gertsriken, et al. RUSSIAN, per, Ukrain. Fiz. Zhur., 4, 1959, pp. 127-129.
*CFSTI TT 70-57045

Sci/phys
Feb 70

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Study of the Compatibility of Three-Component Polymer Mixtures, by I. U. Mikhushin, V. I. Alekseenko.

[illegible], per, Zhur Fiz Khim, Vol XXXIII, 1959, pp 757-762.

CSIRO

Sci - Phys
Fol 62

204,894

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Determination of Surface Tension at High Temperatures by the Hanging and Creeping Drop Methods, by V. I. Smirnova, B. F. Ormont.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 4, 1959, pp 771-779.

DSIR LLU RTS 1590

Sci - Phys

128,837

Oct 60

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

CEA-tr-R-1290 Uncl.

LA THERMOCHIMIE DES ISOTOPES. II. ETUDE DES CHALEURS DE FORMATION DU SELENIURE D'HYDROGENE ET DU SELENIURE DE DEUTERIUM. (The Thermochemistry of Isotopes. II. Study of the Heats of Formation of Hydrogen Selenides and of Deuterium Selenides). A. F. Kapustinskii (Kapustinsky) and R. T. Kankovskii (Kankovsky). Translated into French from Zhur. Fiz. Khim., 33: 722-6(1959). 17p.

Chemistry; Translations MC-4

C-4 NP NSA Dep.(mc); $1.60(fs), $0.80(mf)
JCL or OTS

N-6

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Kinetics of Reduction of ZrI_4 by Metallic Zirconium, by F. Busol.

RUSSIAN, par, Zhur Fiz Khim, Vol XXXIII, No 4, 1959, pp 799-807.

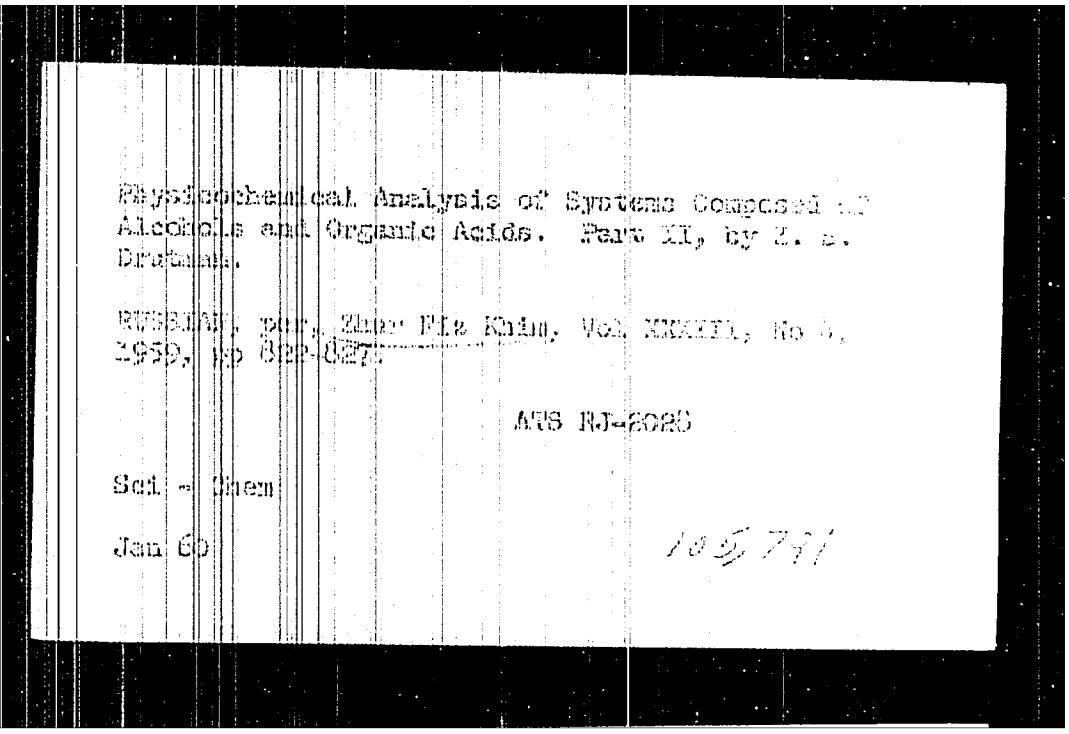
CSIRO/No 5966

Sci-Chem
Mar 63

225,249

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4



Physicochemical Analysis of Systems Composed of Alcohols and Organic Acids. Part XI, by Z. E. Drabkin.

RUSSIAN, pub. Zhur Fiz Khim, Vol XXXIII, No 5, 1959, pp 1122-1127

AFS RJ-2028

Sci - Chem

Jan 60

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

Magarik, S. Ya. and Tsvetkov, V. [N].
OPTICAL ANISOTROPY OF POLYMETHYL METHACRYLATE, POLY-p-t-BUTYLPHENYL METHACRYLATE, AND THEIR COPOLYMERS [Opticheskaya Anizotropiya Polimetilmetakrilata, Poli-p-tret-butilfenil-metakrilata i Ikh Sopolimerov]. [1961] 5p.
Order from ATS $3.90 ATS-12N49R

Trans. of: Zhur[nal] Fiz[icheskoy] Khim[ii] (USSR) 1959, v. 33, no. 4, p. 835-839.

(Materials--Plastics, TT, v. 5, no. 10)

61-12998

1. Acrylic resins--Optical properties
2. Copolymerization
I. Magarik, S. Ya.
II. Tsvetkov, V. N.
III. ATS-12N49R
IV. Associated Technical Services, Inc., East Orange, N. J.

ATS/AT-3017

105599

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4

A Study of Anion Adsorption on Plating by the Alternating Current Method, by T. P. Birintseva, B. N. Kabanov.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 4, 1959, pp 844-851.

ATS-91M42R
ATS/RT-2534
195,977

Sci

Vol 4, No 10
May 62

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290046-4